



Success Story

Italian Children's Charity Connects with Wireless Solution Supported by ZyXEL

Overview

Customer Name

House of Oz

Customer Industry

Non-profit/charity

Challenges

- Provide wireless network infrastructure for non-profit
- Provide wireless Internet connectivity for guests
- Create internal network for staff
- Solution must be secure and stable
- Network must be easy to manage

Solutions

- 802.11 a/b/g/n Business Access Point
- Wireless LAN Controller
- GbE Smart Managed switch
- Unified Security Gateway
- 2-Bay Power Media Server

Benefits

- Connects to mobility features via two separate VLANs
- Firewall provides UTM security
- Thorough wireless coverage via multiple APs
- Free access for guests with full security features
- Future-proof for easy expansion

Background

House of Oz is a non-profit organization based in Torino, Italy. Its mission is to help children with serious diseases and their families. The organization is headquartered in a building that includes common areas for treatment, education, play, and meetings, as well as rooms for housing young patients and their families. Over 60 families were accommodated in 2014, arriving from Italy, Albania, Iraq, and Venezuela. The Store of Oz opened in October 2014, and is housed in a new building where teenagers with handicaps can meet, study, acquire job skills,

cook, and create new experiences. It also includes various common areas, meeting rooms, a shop, a bar, and a restaurant.

The Oz project is sponsored by the famous Italian comedian Luciana Littizzetto, a presenter for Italia's Got Talent on Sky TV. The project involves the collaboration between several companies that share values for helping the community, along with national and local foundations and cooperatives that offer daily services that benefit society.

Challenges

House of Oz wanted a new wireless infrastructure for the opening of Store of Oz, so that would be possible to provide free internet connectivity within the building, including full mobility features.

The organization required two networks, one for employees to access the internal resources, and one for guests to access Internet.

Solutions and Benefits

ZyXEL donated the full network infrastructure based on its Hospitality Solution to provide free Wi-Fi, including wireless coverage, switching, and security appliances. The wireless network was created with 8 NWA3160-N Access Points managed by a NXC2500 Wireless LAN Controller. This allows connections with mobility features to two different VLANs — one for employees and one for guests — by smartphone, tablet, or notebook. A GS1900 24-port GbE Smart Managed Switch was used for cabling connections. Security is provided by a USG310 Unified Security Gateway next-gen firewall with full UTM services connected to a NSA320S 2-Bay Power Media Server operating as log server.

Thanks to the ZyXEL Hospitality Solution the House of Oz now has

complete wireless coverage with mobility features throughout the building, including bar, restaurant, and meeting rooms. Guests can access the Internet for free with full security features, while employees can remain connected to company resources. The network can expand easily in the near future, when new areas are built.

"We are very proud to have contributed to the initiative of Casa Oz (House of Oz)," says Valerio Rosano, sales & marketing manager for ZyXEL. "This great opportunity allows us to confirm how technology can be a valuable resource for providing better services to citizens. Wi-Fi solutions are once again the vehicle of our success, helping us to improve people's lives."

Product Used



USG310 Unified Security Gateway

- High-performance, high-value Next Generation Firewall (NGFW) for small and medium-sized businesses
- Anti-malware protection with firewall, anti-virus, anti-spam, content filtering, IDP, next-generation application intelligence and SSL inspection
- Robust SSL, IPSec and L2TP over IPSec VPN connectivity and VPN high availability (HA)
- Built-in WLAN controller for centralized AP management and effortless WLAN scalability of up to 18 APs
- Comprehensive mobile broadband USB modem compatibility and multi-WAN load-balancing, failover and fall back support



NXC2500 Wireless LAN Controller

- Centralized management for up to 64* APs
- ZyMesh mitigates complex, inconvenient cabling Wi-Fi deployments Comprehensive features for WLAN performance optimization and always-on Wi-Fi connectivity
- Seamless integration with external AD, LDAP, RADIUS authentication
- User-friendly authentication by QR code facilitates keyboard-less mobile devices accessing Internet

* Management of 64 APs is supported with firmware version V4.10 or above



GS1900 24-port GbE Smart Managed Switch with GbE Uplink

- 10/100/1000 Mbps GbE ports
- Easy browser-based switch management
- Quick and easy set up wizard
- Advanced network error prevention features (loop protection, dual images, storm control, DoS and SSL)
- Fanless design
- Green Ethernet IEEE 802.3az support and intelligent ZyXEL green features



NWA3160-N 802.11 a/b/g/n Business Access Point

- Higher bandwidth and superior performance with 802.11n
- 3-in-1 hybrid AP WLAN including AP controller mode, managed AP mode and standalone AP mode
- Brand new centralized graphic management interface for up to 24 WLAN APs
- Backup redundancy supported to provide reliable connection services
- Secured tunnels for communication between controller and managed AP to prevent leaking of configurations
- Enterprise-class AP functionalities with comprehensive configuration interfaces.
- Built with Low Smoke, Zero Halogen (LSOH) materials for plenum rating for UL 2043 support

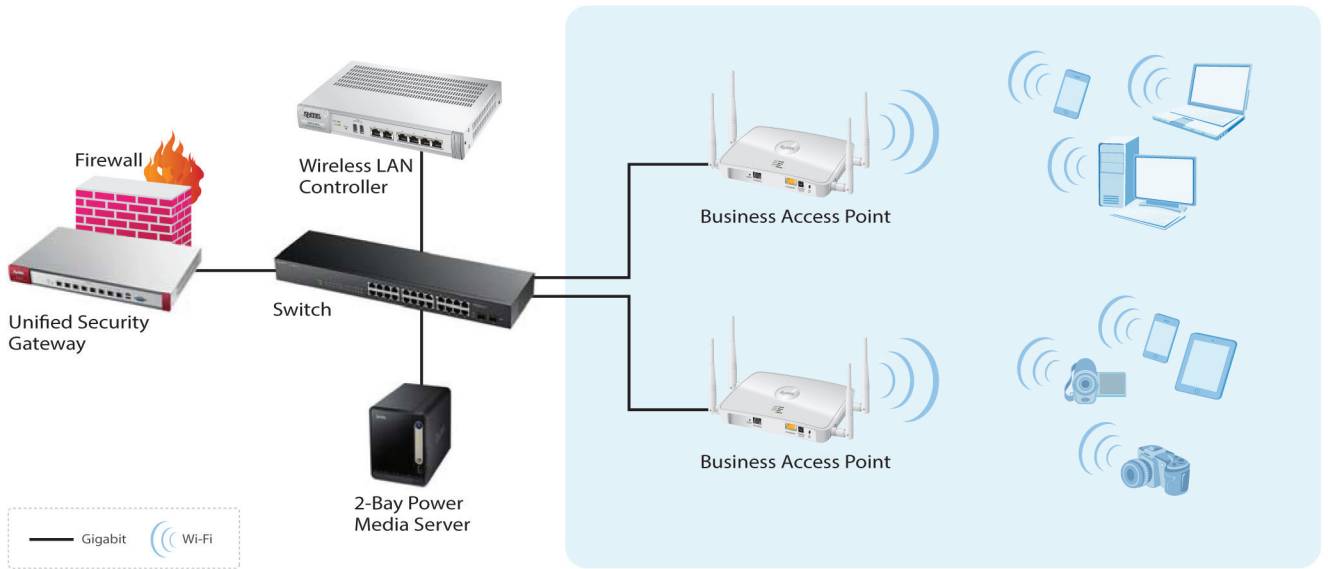


NSA320S 2-Bay Power Media Server

- Organize media, photo, music and backups in one centralized location
- Share content around your home to any DLNA certified device
- Access your files anywhere on your mobile device using the Polkast App
- Organize your media library with the built in Media Server
- Remote backups and downloads your files to the Dropbox at anywhere
- Reduce power consumption with power scheduling and hibernation functions



Diagram



About ZyXEL Communications

ZyXEL Communications Corp., founded in 1989 and headquartered in Taiwan, is the leading provider of complete broadband access solutions. As one of the early modem manufacturers, ZyXEL has gone through transformations in the fast-paced networking industry. Delivering cutting-edge communications innovations to more than 400,000 businesses and more than 100 million consumers throughout the world, today ZyXEL is one of the few companies in the world capable of offering complete networking solutions for Telcos, small to medium-sized businesses, and digital home users for a wide range of deployment scenarios. Telco solutions include Central Office Equipment, Customer Premise Equipment, Wired and Wireless Access Network Devices, and Carrier Switches. SMB and Enterprise solutions include Unified Security Gateways, LAN Switches, WLAN, and IP Telephony. Digital Home solutions include Network Connectivity Devices and Multimedia Solutions.

The company has 1000 employees and distributors in 70 countries, reaching more than 150 regional markets. The ZyXEL Communications Corp. includes 35 subsidiaries and sales offices and two research and development centers worldwide. For more information, visit the company's Website, <http://www.zyxel.com>.

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